

Today's Topics:

* SpaceNews 25-Dec-89 *
Illinois LICENSE for hams
News From OSCAR-11 22-Dec-89
Packet compression, what issue? (2 msgs)
Re: ARRL and tx/rx mods

Date: 24 Dec 89 02:15:55 GMT
From: masscomp!ocpt!tsdiag!ka2qhd!kd2bd@think.com (John Magliacane)
Subject: * SpaceNews 25-Dec-89 *
Message-ID: <67@ka2qhd.UUCP>

Bulletin ID: SPC91225

SpaceNews

MONDAY DECEMBER 25, 1989

SpaceNews originates at KD2BD in Wall Township, NJ, and is distributed weekly around the world. It is available for UNLIMITED distribution.

* UOSAT D/E NEWS *

The UoSAT-D and UoSAT-E spacecraft have been successfully integrated with the Ariane Structure for Auxiliary Payloads (ASAP) and are now waiting for launch on 11 January at 01:34 GMT - alongside SPOT-2 and the four AMSAT Microsats.

The ASAP, UO-D & E and the four AMSAT Microsats shared a large clean room at the Ariane launch complex. With six spacecraft being worked on simultaneously, the scene was one of considerable activity!

The completed composite (SPOT + UoSATs/Microsats + fairing) will remain in the Assembly Hall over the Christmas period. On January 3rd, the composite will be moved to the launch pad and integrated onto the launcher.

* 1990 METEORS *

Peak Times for 1990 Meteor Showers:

Shower Name	Date	Peak (UTC)	Duration	Accuracy (+/-)
-----	----	-----	-----	-----

Quadrantids	03 January	1145	14 hours	15 minutes
Lyrids	22 April	0441	2.3 days	12 hours
Eta Aquarids	05 May	0612	3 days	12 hours
Piscids	05 May	1913	?	?
Arietids	07 June	1253	8 days	12 hours
Zeta Perseids	09 June	2136	?	?
Delta Aquarids	29 July	0818	7 days	12 hours
Perseids	12 August	0625	4.6 days	75 minutes
Orionids	21 October	0145	2 days	12 hours
Taurids	03 November	1457	20 days	12 hours
Cassiopeids	03 November	1430	?	?
Leonids	17 November	0804	4 days	12 hours
Geminids	13 December	1204	2.5 days	12 hours
Ursids	22 December	1530	2.2 days	12 hours

[Thanks to Joe Reisert, W1JR, for doing the work necessary to calculate this information.]

★ OSCAR-13 OPERATIONS ★

The following information is provided by AMSAT-DL.

AO-13 TRANSPONDER SCHEDULE

MODE B	MA 000 TO MA 110	
MODE JL	MA 110 TO MA 145	
OFF	MA 145 TO MA 150	BAHN LAT +3.6 deg
S BEACON	MA 146 TO MA 147	BAHN LON 179.4 deg
MODE S	MA 147 TO MA 160	
MODE B	MA 150 TO MA 255	
OMNI ANT	MA 225 TO MA 035	

★ SpaceNews FEEDBACK ★

From: David Oliver Eisman
 Organization: University of New Mexico, Albuquerque, NM
 Date: Sun, 19 Nov 89 00:32:36 MST
 To: ka2qhd!kd2bd

Hi. Just wanted to say thanks for the regular spaceNews service that you provide.

Ollie N6LTJ
 Students for the Exploration and Development of Space
 Univ. of New Mexico Chapter

SEDS Satellite Tracking Station

From: bowen@acsu.buffalo.edu
Date: Tue, 19 Dec 89 16:57:00 EST
To: kd2bd@ka2qhd.uucp

Well, since you asked... I've thought about dropping you a note a few times telling you that I really love what you're doing. I've gotten quite a bit out of SpaceNews (I just recently wrote for a copy of the mission charts from SPARK you mentioned) and it's in a format that's really easy to assimilate.

Thanks! And keep up the good work!

Devon

* FEEDBACK WELCOMED *

Feedback regarding SpaceNews can be directed to the author (John) via any of the following paths:

UUCP : ucbvax!rutgers!petsd!tsdiag!ka2qhd!kd2bd
PACKET : KD2BD @ NN2Z

<<< Stay on course.....Say YES to Morse! >>>

* SpaceNews * >> Satellite News You Won't Find Everywhere Else << * SpaceNews *

<eof>

--

AMPR : KD2BD @ NN2Z (Neptune, NJ)
UUCP : ucbvax!rutgers!petsd!tsdiag!ka2qhd!kd2bd
"For every problem, there is one solution which is simple,
neat and wrong." -- H.L. Mencken

Date: 24 Dec 89 19:07:40 GMT
From: asuvax!stjhmc!f1.n234.z1.fidonet.org!Jim.Grubs@handies.ucar.edu (Jim Grubs)
Subject: Illinois LICENSE for hams

Message-ID: <10062.25951EC6@stjhmc.fidonet.org>

> From: mac@idacrd.UUCP (Robert McGwier)
>
> I was appalled to learn for the first time of this
> bill in the Illinois
> legislature for licensing of communications equipment
> by the state
> of Illinois. This was reported in this news book (!!)
> that came out
> a couple of days ago Ham Radio Newsletter Volume 1,
> Number 1 edited
> (compiled?) by KB9BVN.

FidoNet HAM/PACKET Digest, Vol. 1, Number 1 was published several months ago. The Illinois situation has since changed since then. The bill was watered down to make it harmless. Nothing was heard about it again, so I don't even know if it ever even came to a vote. Judging by the lack of protests, I'd guess it died the death of a rag doll.

73 de Jim Grubs, W8GRT

--

Uucp: ...{gatech,ames,rutgers}!ncar!asuvax!stjhmc!234!1!Jim.Grubs
Internet: Jim.Grubs@f1.n234.z1.fidonet.org

Date: 23 Dec 89 18:02:50 GMT
From: att!tsdiag!ka2qhd!kd2bd@ucbvax.Berkeley.EDU (John Magliacane)
Subject: News From OSCAR-11 22-Dec-89
Message-ID: <66@ka2qhd.UUCP>

UOSAT 2 COMPUTER STATUS INFORMATION

FAD1 OPERATING SYSTEM V2.0
TODAY'S DATE IS 23 /12 /89
UNIVERSAL TIME IS 15 :43 :47 DAY 7
AUTO MODE IS SELECTED
SPIN PERIOD IS - 225
Z MAG FIRINGS = 0
+ SPIN FIRINGS = 1
- SPIN FIRINGS = 0
RAM WASH POINTER AT BAC2
WOD COMMENCED 23 /12 /89 AT 0 :0 :10
WITH CHANNELS 10 ,11 ,19 ,29 ,
LAST CMD RECEIVED WAS 109 TO 0 WITH DATA 0

ATTITUDE CONTROL INITIATED, MODE 1

DIGITALKER ACTIVE

**** UoSAT-OSCAR-11 BULLETIN - 207 22nd December 1989 ****

UoSAT MISSION CONTROL CENTRE
University of Surrey, Guildford, Surrey, GU2 5XH, England

** UoSAT-D & E LAUNCH CAMPAIGN **

The UoSAT-D and UoSAT-E spacecraft have been successfully integrated with the Ariane Structure for Auxiliary Payloads (ASAP) and are now waiting for launch on 11 January at 01:34 GMT - alongside SPOT-2 and the four AMSAT Microsats.

The ASAP, UO-D & E and the four AMSAT Microsats shared a large clean room at the Ariane launch complex. With six spacecraft being worked on simultaneously, the scene was one of considerable activity!

Most of the UoSAT launch team has now returned from French Guiana after preparing the satellite for integration and carrying out detailed functional check-out procedures. Martin Sweeting G3YJO and Neville Bean G8NOB have returned to UoS, whilst Jeff Ward K8KA has travelled to the USA. Maarten "Max" Meerman, G7DQE from UOSAT and Dave Cowdin, WDOHHU from AMSAT-NA remain in Kourou to 'baby-sit' the UoSATs/Microsats and trickle charge their batteries during their wait for launch in January.

The completed composite (SPOT + UoSATs/Microsats + fairing) will remain in the Assembly Hall over the Christmas period. On January 3rd, the composite will be moved to the launch pad and integrated onto the launcher.

The UoSAT launch campaign went very smoothly - which was as well since the satellites and ground support equipment were delayed for 5 of the 10 days of the campaign! Systems and payloads on both spacecraft are performing nominally. Arianespace provided a very professional yet friendly service.

Details of initial operations, telemetry formats and equations will be published early in the new year as soon as they are finalised. However, it is most likely that initial operations on both spacecraft will utilise an enhanced version of the FORTH software used on UoSAT-2. This software provides the necessary facilities to perform initial check-out and attitude control prior to deployment of the gravity gradient boom used to stabilise the spacecraft in its final earth pointing configuration.

** AO-13 OPERATING SCHEDULE **

The following information is provided by AMSAT-DL.

AO-13 TRANSPONDER SCHEDULE

MODE B MA 000 TO MA 110
MODE JL MA 110 TO MA 145
OFF MA 145 TO MA 150 BAHN LAT +3.6 deg
S BEACON MA 146 TO MA 147 BAHN LON 179.4 deg
MODE S MA 147 TO MA 160
MODE B MA 150 TO MA 255
OMNI ANT MA 225 TO MA 035

AMSAT OSCAR-10 is currently available for whole orbit operation via the mode B transponder.

** Reports received from:-

Angus Newman, Birger Lindholm, K9CIS

Thanks for all of the reports received this year, Merry Christmas and a Happy New Year from "The UoSAT Team".

** \$BID **

Please use BID \$UOSAT.207 for PR BBS use.

--

AMPR : KD2BD @ NN2Z (Neptune, NJ)
UUCP : ucbvax!rutgers!petsd!tsdiag!ka2qhd!kd2bd
"For every problem, there is one solution which is simple,
neat and wrong." -- H.L. Mencken

Date: 24 Dec 89 19:07:48 GMT
From: asuvax!stjhmc!f1.n234.z1.fidonet.org!Jim.Grubs@handies.ucar.edu (Jim Grubs)
Subject: Packet compression, what issue?
Message-ID: <10063.25951EC8@stjhmc.fidonet.org>

> From: sampson@attctc.Dallas.TX.US (Steve Sampson)
>
> In article <1250102@hpnmdla.HP.COM>,
> alanb@hpnmdla.HP.COM (Alan Bloom) writes:

> > ... If you are ARC'ing a file to save transmission
> > bandwidth, than that conforms to the spirit of the FCC rules, if you
> > are encoding the transmission in order to obscure the meaning, then
> > you're out of line.
> >
> > A1 N1AL
> By ARC'ing a text file you have generated code that
> uses the eighth-bit.
> Any code using the eighth-bit is unspecified.
> Unspecified codes are
> restricted to 6m and up. The restriction was probably
> meant to keep the
> ARC file transmissions out of the HF bands, but I'm
> only guessing. That's

I think the logic is there is no standard accepted by all as to what the ASCII characters above 127 are. IBM has their version, Commodore theirs, etc.

73 de Jim Grubs, W8GRT

--

Uucp: ...{gatech,ames,rutgers}!ncar!asuvax!stjhmc!234!1!Jim.Grubs
Internet: Jim.Grubs@f1.n234.z1.fidonet.org

Date: 24 Dec 89 19:07:55 GMT
From: asuvax!stjhmc!f1.n234.z1.fidonet.org!Jim.Grubs@handies.ucar.edu (Jim Grubs)
Subject: Packet compression, what issue?
Message-ID: <10064.25951ECA@stjhmc.fidonet.org>

> From: perry@hpfcdc.HP.COM (Perry Scott)

> Perhaps we can conform to the spirit of the law by
> adopting public conventions
> for compressed files. The "Z" convention for Lempel-
> Ziv UNIX(tm) files makes
> the "cipher" readable by anyone.

I don't know how all this cipher stuff got into the thread. My original question was based on the fact the International Telegraphic Alphabet #5 doesn't define any ASCII characters above 127.

73 de Jim Grubs, W8GRT

--

Uucp: ...{gatech,ames,rutgers}!ncar!asuvax!stjhmc!234!1!Jim.Grubs
Internet: Jim.Grubs@f1.n234.z1.fidonet.org

Date: 24 Dec 89 19:07:31 GMT
From: asuvax!stjhmc!f1.n234.z1.fidonet.org!Jim.Grubs@handies.ucar.edu (Jim Grubs)
Subject: Re: ARRL and tx/rx mods
Message-ID: <10061.25951EC4@stjhmc.fidonet.org>

> From: perry@hpfcdc.HP.COM (Perry Scott)

> I recant. I said Marine VHF, and what you say is
> true. That band requires
> type acceptance.
>
> However, CAP other para-military frequencies are well
> within the
> capabilities of most 2-meter rigs. I've been told
> that most military
> bands do not need the type acceptance.
>
> Funny how the government treats itself and commercial
> interests differently.

Of course, I forgot to mention that the federal government has a VERY direct enforcement handle on their own internal communications systems.

73 de Jim Grubs, W8GRT

--

Uucp: ...{gatech,ames,rutgers}!ncar!asuvax!stjhmc!234!1!Jim.Grubs
Internet: Jim.Grubs@f1.n234.z1.fidonet.org

End of INFO-HAMS Digest V89 Issue #1063
